

IN THE CLAIMS:

Please cancel claims 1 3 without prejudice and add claims 4-9  
as follows:

*Sub  
C3*

--4. An arrangement for interferometric radar measurement  
comprising:

a transmitter disposed on a turnstile of a ROSAR  
system of a helicopter radar;

*P 6*

at least two assigned coherent receiving antennas  
having receiving channels disposed on a turnstile of a ROSAR system  
of a helicopter radar; and

*incomplete*

an additional transmitting/receiving antenna sharply  
focused in the elevation direction.

5. The arrangement for interferometric radar measurement  
according to claim 4, wherein said transmitter and said at least  
two assigned coherent receiving antennas are arranged at an end of  
said turnstile.

6. The arrangement for interferometric radar measurement  
according to claim 4, wherein said receiving antennas are

positioned vertically over each other in a normal position of a helicopter.

Sub  
C4  
1. A process for interferometric radar measurement comprising the steps of:

assigning two coherent receiving antennas having receiving channels to a transmitter;

B6  
calculating a path length difference of two distances to a measured receiving point from the wave length of a transmitted radar signal and of a measured phase difference of a reception echo of both coherent receiving channels;

assigning said two coherent receiving antennas to a transmitter of a ROSAR system;

arranging said two coherent receiving antennas and said transmitter on a rotating turntable of a radar; and

?  
evaluating signals of a sharply focused transmitting/receiving antenna for determination of a phase difference;

between what